

Title (en)
PROTON CONDUCTOR

Title (de)
PROTONENLEITER

Title (fr)
CONDUCTEUR DE PROTONS

Publication
EP 1793389 B1 20091125 (EN)

Application
EP 05765216 A 20050704

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Abstract (en)
[origin: EP1793389A1] The present invention provides a proton conductor, which can be used as a electrolyte of fuel cells and the like, and is a compatibilized material made of an ionic liquid and a polymer. The present invention is a proton conductor consisting of a compatibilized material made of a salt of Brönsted base and Brönsted acid, wherein said salt has at least one heteroatom accompanied with protons, and a polymer, wherein said polymer is produced by copolymerizing a vinyl compound, a divinyl compound and a maleimide compound and said maleimide compound is represented by the chemical formula 1 below: wherein R 1 is a hydrogen atom, an alkyl group which may contain a substituent, an aryl group or an aralkyl group.

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